

What is claimed is:

1. A light-emitting device comprising an anode, an organic compound layer containing at least one light-emitting layer, and a cathode,

5        wherein the at least one light-emitting layer contains two or more different kinds of light-emitting materials, and at least one of the two or more light-emitting materials is an orthometallated complex.

10        2. The light-emitting device as described in claim 1, wherein the two or more different kinds of light-emitting materials are contained in the same light-emitting layer.

15        3. The light-emitting device as described in claim 1, wherein the two or more different light-emitting materials are contained in different light-emitting layers.

20        4. The light-emitting device as claimed in claim 1, wherein the at least one light-emitting layer is a doped light-emitting layer in which a light-emitting material is dispersed in a host material, or a non-doped light-emitting layer which contains a light-emitting material as a main component.

25        5. The light-emitting device as claimed in claim 1,

wherein the orthometallated complex contains a metal selected from Ir, Pd and Pt.

6. The light-emitting device as claimed in claim 1,  
5 wherein the at least one light-emitting layer contains the orthometallated complex in an amount of 0.1 mass% to 50 mass%.

7. The light-emitting device as claimed in claim 1,  
wherein the at least one light-emitting layer contains at least  
10 one compound selected from the group consisting of benzoxazole derivatives, benzimidazole derivatives, benzothiazole derivatives, styrylbenzene derivatives, polyphenyl derivatives, diphenylbutadiene derivatives, tetraphenylbutadiene derivatives, naphthalimide derivatives,  
15 coumarin derivatives, perylene derivatives, oxadiazole derivatives, aldazine derivatives, pyralidine derivatives, pyran derivatives, pyrene derivatives, cyclopentadiene derivatives, bis-styrylanthracene derivatives, quinacridone derivatives, pyrrolopyridine derivatives,  
20 thiadiazolopyridine derivatives, styrylamine derivatives, aromatic dimethyldiene compounds, metal or rare earth complexes of 8-quinolinol derivatives, polythiophene derivatives, polyphenylene derivatives, polyphenylenevinylene derivatives and polyfluorene derivatives.

25

8. The light-emitting device as claimed in claim 1,  
wherein the at least one light-emitting layer contains a host  
material selected from the group consisting of carbazole  
derivatives, oxazole derivatives, oxadiazole derivatives,  
5 imidazole derivatives, polyaryllalkane derivatives, pyrazoline  
derivatives, pyrazolone derivatives, phenylenediamine  
derivatives, arylamine derivatives, amino-substituted  
chalcone derivative, styrylanthracene derivatives, fluorenone  
derivatives, hydrazone derivatives, stilbene derivatives,  
10 silazane derivatives, aromatic tertiary amine compounds,  
styrylamine compounds, aromatic dimethylidene compounds,  
porphyrin compounds, anthraquinodimethane derivatives,  
anthrone derivatives, diphenylquinone derivatives, thiopyran  
dioxide derivatives, carbodiimide derivatives,  
15 fluorenylidene methane derivatives, distyrylpyradine  
derivatives, tetracarboxylic acid anhydrides of aromatic rings,  
tetracarboxylic acid anhydrides of aromatic rings,  
phthalocyanine derivatives, metal complexes of 8-quinolinol  
derivatives, metal phthalocyanine, metal complexes containing  
20 as a ligand benzoxazole or benzothiazole, polysilane compounds,  
electrically conductive high molecular oligomers, selected  
from the group consisting of poly(N-vinylcarbazole)  
derivatives, aniline copolymers, thiophene oligomer and  
polythiophene, polythiophene derivatives, polyphenylene  
25 derivatives, polyphenylenevinylene derivatives, and

polyfluorene derivatives.

9. The light-emitting device as claimed in claim 1, which emits a white light.

5

10. The light-emitting device as claimed in claim 1, wherein the two or more different kinds of light-emitting materials are three-kinds of light emitting materials that includes a blue light-emitting material having a light-emitting wavelength peak in the range of 400 to 500 nm, a green light-emitting material having a light-emitting wavelength peak in the range of 500 to 570 nm, and a red light-emitting material having a light-emitting wavelength peak in the range of 580 to 670 nm.

15

11. The light-emitting device as claimed as in claim 1, wherein the at least one light-emitting material includes a styrylbenzene derivative as a blue light-emitting material, an orthometallated complex of tris(2-phenylpyridine) iridium complex as a green light-emitting material, and a pyran derivative as a red light-emitting material.

12. The light-emitting device as claimed in claim 1, which further comprises a transparent substrate selected from the group consisting of glass, a polycarbonate sheet, a polyether

sulfone sheet, a polyester sheet and a poly(chlorotrifluoroethylene) sheet.

13. The light-emitting device as claimed in claim 1,  
5 wherein the organic compound layer has a total thickness of 0.05  $\mu\text{m}$  to 0.3  $\mu\text{m}$

14. The light-emitting device as claimed in claim 1,  
wherein the organic compound layer has at least one layer  
10 prepared by a wet method.

15. The light-emitting device as claimed in claim 1,  
wherein the organic compound layer has at least one layer  
prepared by a dry method.  
15